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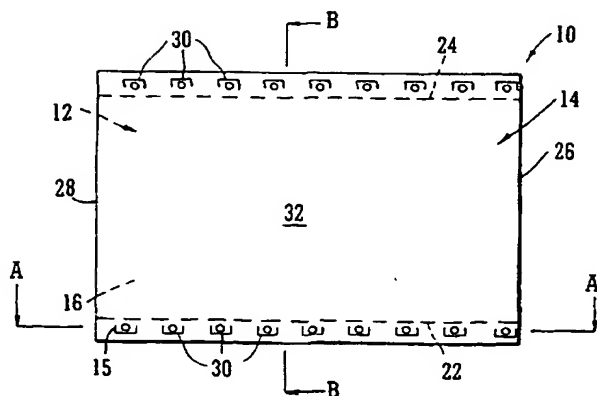
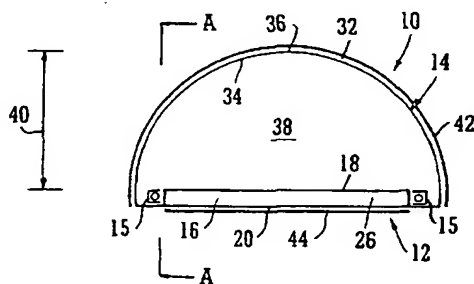
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[Continued on next page]

(54) Title: AN ILLUMINATED DEVICE



(57) Abstract: An illuminated device (10) comprises a light source (15) and an illumination plate (16), having a first face (18) and a second face (20), separated by edges (22, 24, 26 and 28), and a diffusion cover (32), having an inner surface (34). The diffusion cover (32) overlies the illumination plate (16) and is shaped to form an enclosure (38) defined by the inner surface (34) and the first face (18). The light source (15) delivers light into the illumination plate via the edges (22, 24, 26 and 28). The light undergoes scattering or primary diffusion within the plate, before emerging from the first face (18) at shallow angles, into the enclosure (38). A reflective layer (44) prevents light emerging from the second face (20). Within the enclosure (38), the light undergoes secondary diffusion to provide uniform illumination of the cover (32) and a colour, graphic or message (42) superposed thereon.

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## INTERNATIONAL SEARCH REPORT

Intel International Application No

PCT/GB 02/02480

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 F21V8/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F21V

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GB 1 004 319 A (GEORGE KIRWAN COLLISON HARDEST) 15 September 1965 (1965-09-15) page 2, right-hand column -page 3, left-hand column; figures 1,2,14 -----	1



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
GB 1004319 A	15-09-1965	US 3264769 A	09-08-1966
		US 3262224 A	26-07-1966
		US 3257748 A	28-06-1966
		US 3332161 A	25-07-1967
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